

1044b UIC - EAST POPLAR OIL FIELD
ENFORCEMENT CASE SDWA 1431
Folder ID: 13551 2000 Privileged

Release in full

25 Well Files - Biere 1-W

Region 8



13551

HISTORY

Well Name: **Biere #1-W (SWD)**
 or MESA #1-W (Biere)

API No: **25-085-2104900**

Location: **Section 22 28N 51E**
 SW, NW, SW

Latitude: 48.1625060

Longitude: 105.1281130

Roosevelt Co. Montana

Status: **P&A 9/84**

Received
Office of Enforcement

FEB 25 2000

Compliance & Env. Justice

15 Poly Drive
Billings, Montana 59101
June 18, 1970

Mr. Ronald D. Ragland
Petroleum Engineering & Management Corporation
250 Securities Building
Billings, Montana 59101

Dear Sir:

Your request of June 16 for administrative approval for a salt water disposal well in the NW/4 SW/4 of Section 22, Township 28 North, Range 51 East, Roosevelt County has received favorable consideration.

The Administrative Order approving your request will be issued by our Helena Office. In the meantime since you have a rig immediately available, you may proceed with this program.

I am returning your check for \$25 since there is no permit fee for a disposal well.

Very truly yours,

Herbert D. Hadley
Geologist

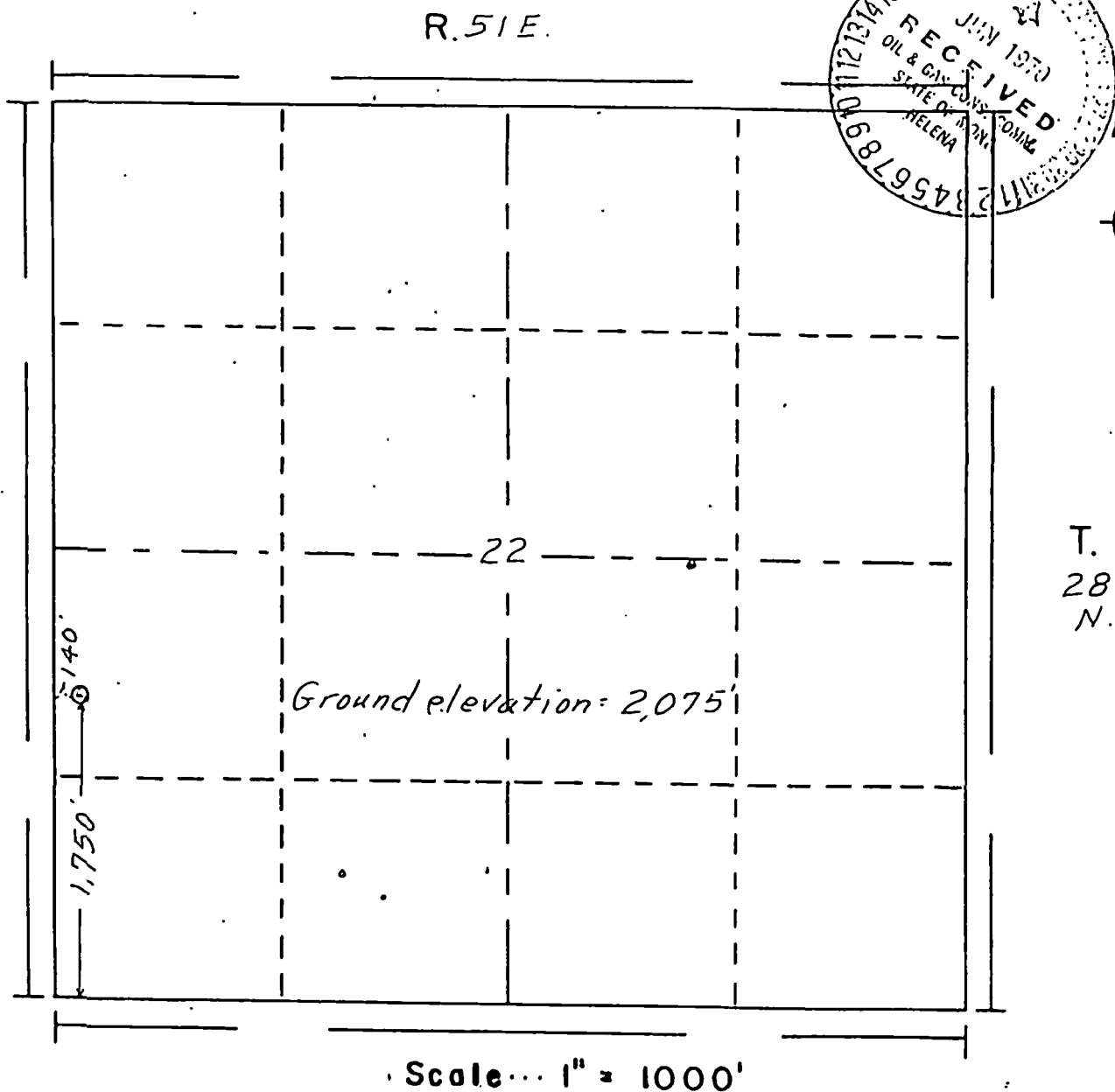
HDH:sms

Enclosure

cc: Mr. Norman J. Beaudry
Helena, Montana

RECEIVED

FEB 25 2000
Office of Enforcement
Compliance & Environmental
Justice



Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from Mr. Tom Todd
 for Mesa Petroleum Corporation
 determined the location of Salt Water Disposal Well #1 Biere
 to be 1750' RS & 140' FW Section 22 Township 28 North
 Range 51 East of the Montana Principal Meridian
 Roosevelt County, Montana

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of Mesa Petroleum
 Corp. Salt Water Disposal Well #1 Biere.

Date: June 16, 1970

Justin S. Lye
 Licensed Land Surveyor No. 1864S
 State of Montana

Company MESA PETROLEUM COMPANY c/o Petr. Engr. - Manage. Corp. 250 SECURITIES BUI NG BILLINGS, MONTANA 59101

Well Name BIERE No. 1 - W (SWD)

County ROOSEVELT Field POPLAR

Location 1750 FSL 140 FWL (NW SW) Sec. 22 Twp. 28N Rge. 51E

Permit No.

Receipt No.

Drilling Fee

\$ NONE REQUIRED

Intention to Drill

6-16-70 (Approved 6-18-70)

API No.

085-21049

Permit Expiration Date

Permit Extended 90 days

\$5,000 one well bond

\$5,000 blanket bond

\$10,000 blanket bond

X

Government Well

Int to abandon 7-23-84

Sundry Notices

" "

" "

" "

Compl.

7-9-70

SWD

7-20-70

TD 998

PB 950

Log of Well

2/8/91
Subsequent Report of Abandonment

8-12-91

Electric Log

Radioactive Log

*2 copies
7-20-70*

✓ Damma Ray - Neutron

IMPORTANT MESSAGE

FOR _____
DATE _____ TIME _____ A.M.
P.M.

WHILE YOU WERE OUT

M _____
OF Fee land
PHONE NO. _____

TELEPHONED	<input type="checkbox"/>	PLEASE CALL	<input type="checkbox"/>
CALLED TO SEE YOU	<input type="checkbox"/>	WILL CALL AGAIN	<input type="checkbox"/>
WANTS TO SEE YOU	<input type="checkbox"/>	RUSH	<input type="checkbox"/>

Mesa Pet.
Co.

RETURNED YOUR CALL ☐

7-13-81

MESSAGE Biere Lease
28-51-22: NW SW
Roosevelt Co. Mt.
1750' fr S. Ln & 140' fr W. Ln
SIGNED Fee?



July 30, 1984

Environmental Protection Agency
Region VIII
1860 Lincoln Street
Denver, Colorado 80295

Attention: Gustav Stolz

Dear Mr. Stolz:

Subject: Biera #A-1 (S&D) Proposed Plugging Notice

This letter will answer the questions asked by your letter dated July 26, 1984, and will serve as an attachment to EPA Form 7520-14 enclosed.

- (A) Underground sources of drinking water in the immediate area of our salt water disposal well consist of tertiary sands found within the top two hundred feet of the surface.
- (B) We are injecting into the Judith River formation.
- (C) Subject well has two strings of casing set, 8 5/8" casing to TD of 998', 5 1/2" casing set at 749'. Both strings of casing were cemented to surface.
- (D) Enclosed.

If you have any further questions regarding our proposed plans, please call me at (806) 378-4887.

Sincerely,

Randy Z. Nordven

Randy Z. Nordven
Regulatory Coordinator
Onshore Operations Division

Enc.

dar



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
1860 LINCOLN STREET
DENVER COLORADO 80295

AUG 14 1984

REF: BWM-DW

Randy Z. Nordsven
Regulatory Coordinator
Mesa Petroleum Company
P. O. Box 2009
Amarillo, Texas 79199

RE: Well Number: MTR21PR-0005,
Plugging and Abandonment Plan,
Salt Water Disposal Well,
Biere #A-1 (SWD), SW/4 Sec. 22,
T28N R51E, Poplar Field,
Roosevelt County, Montana

Dear Mr. Nordsven:

Thank you for your July 30 letter and the requested plugging and abandonment plans for the Mesa Petroleum salt water disposal well cited above.

Please be advised that your Plugging and Abandonment Plan, EPA Form 7520-14, is hereby approved. If possible, a 30-day notice of your scheduled plugging and abandonment of this well would be appreciated so that we can arrange to witness the operation. Please advise Mr. Richard Long, telephone (303) 844-3914, in this regard.

Sincerely,

John G. Welles
Regional Administrator

RECEIVED

AUG 21 1984

REGISTRATION RECORDS



December 13, 1989

Ft. Peck Tribes
Box 1027
Polar, Wyoming 59255

Attention: Debbie Madison

Subject: Biere A-1 (SWD)
Roosevelt County, Montana

Please find enclosed plugging records filed on subject well.

This answers your request of Fall 1988 to provide information on this well. I regret the delay in responding; your address and phone number were misplaced and only found today.

Please call me at (806) 378-4886 if you have any questions regarding this information.

Sincerely,

R. E. Mathis, C.E.P.
Regulatory Agent

dp

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

BOARD OF OIL AND GAS CONSERVATION



TED SCHWINDEN, GOVERNOR

OIL AND GAS CONSERVATION DIVISION

STATE OF MONTANA

February 13, 1990

Mesa Petroleum Co.
P.O. Box 2009
Amarillo, Texas 79189

Gentlemen:

Our records show that the following report/reports are
delinquent regarding your Biere #A-1 SWD
well located NW SW 22-28N-51E
Roosevelt County, Montana, API No. 25-085-21049.

Form No. 2 Subsequent Report of Abandonment

Form No. -

Please request any of the required State forms that you do
not have in supply.

Thanks for your prompt attention to this matter.

Sincerely,

Floyd Podoll

Floyd Podoll
Chief Field Inspector

FP:er

Our file indicates an Intent to Abandon dated July 18, 1984.
In order for this well to be removed from your bond and the
file closed, we will need the above report. Thank you.

085 - 21049
17505 1002



May 8, 1990

State of Montana
2535 St. Johns Avenue
Billings, Montana 59102

Attention: Floyd Podoll
Chief Field Inspector

Dear Mr. Podoll:

Subject: Biere # A-1 SWD
Sec. 22-28N-51E
Roosevelt Co., MT

Pursuant to your letter of February 13, 1990 requesting a Form No. 2 "Subsequent Report of Abandonment" be filed on the above well, please find enclosed a microfilm copy of Form No. 2 on the plug and abandonment of the Biere # A-1 SWD. This form was filed in September, 1984 and again in October, 1984. This file has been microfilmed. If there is any further information you require, I will attempt to retrieve it.

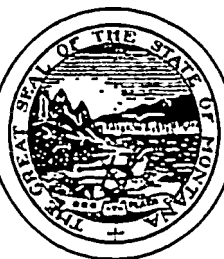
Sincerely,

Carolyn L. McKee
Regulatory Analyst

clm;s

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

BOARD OF OIL AND GAS CONSERVATION



STAN STEPHENS, GOVERNOR

OIL AND GAS CONSERVATION DIVISION

STATE OF MONTANA

May 14, 1990

Mesa Petroleum Company
P.O. Box 2009
Amarillo, Texas 79189

Attention Carolyn L. McKee
Regulatory Analyst

Dear Ms. McKee:

Thank you for your letter of May 8, 1990, in answer to our letter requesting a Subsequent Report of Abandonment.

We have no record of ever receiving this report in our file. Inasmuch as the copy you sent was not approved, perhaps it was never submitted to our office for some reason.

If you could submit it on the enclosed Form 2 in quadruplicate along with the cementing ticket for the procedure, we will process and remove the well from your bond.

Thanks for your prompt attention to this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "ER".

Ethel Rogers

Enclosures

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION

BOARD OF OIL AND GAS CONSERVATION



STAN STEPHENS, GOVERNOR

OIL AND GAS CONSERVATION DIVISION

STATE OF MONTANA

January 30, 1991

Mesa Petroleum Company
P.O. Box 2009
Amarillo, Texas 79189

Attention Carolyn L. McKee
Regulatory Analyst

Re: Sec. 22-28N-51E, Roosevelt Co.

Dear Ms. McKee:

In answer to your letter of January 23, 1991, please be advised that the copy of a Subsequent Report of Abandonment on the Biere A-1 SWD which you enclosed was never received or approved by our office.

Therefore, please send us a new Subsequent Report of Abandonment on the enclosed sundry and forward to us for approval and removal of this well from your bond.

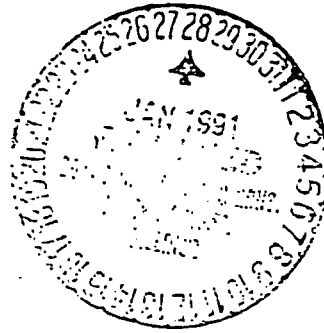
Thanks for your cooperation on this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ethel Rogers".

Ethel Rogers
Secretary

er
enc



January 23, 1991

State of Montana
Oil & Gas Conservation Division
2535 St. Johns Avenue
Billings, Montana 59102

Attention: Ethel Rogers

Dear Ms. Rogers:

Subject: Biere # A-1 SWD
• Sec. 22-28N-51E
Roosevelt Co., Montana

Please find enclosed copies of Form No. 2 "Subsequent Report of Abandonment" which was mailed to your office in September of 1984. I hope this copy is good enough for you because our file has been microfilmed and this is the best copy I can obtain.

Sincerely,

Carolyn L. McKee
Sr. Regulatory Analyst

clm;s

Conklin

ROUTING AND TRANSMITTAL SLIP		Date	
TO: (Name, office symbol, room number, building, Agency/Post)		Initials	Date
1.	BARBARA / Paul		
2.			
3.			
4.			
5.			
Action	File	Note and Return	
Approval	For Clearance	Per Conversation	
As Requested	For Correction	Prepare Reply	
Circulate	For Your Information	See Me	
Comment	Investigate	Signature	
Coordination	Justify		

REMARKS

Attached is the documentation
in the Biene #1 well as
Ft. Peck that Debi M. provided.
Let me know if you need to
see any of the originals - I'll send
them back by the end of next week.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org symbol, Agency/Post)	Room No.—Bldg.
Douglas	Phone No.

RECEIVED
JUL 07 1997
Office of Enforcement,
Compliance & Environmental
Justice

June 16, 1970



Montana Oil & Gas Conservation Commission
P. O. Box 217
Helena, Montana 59601

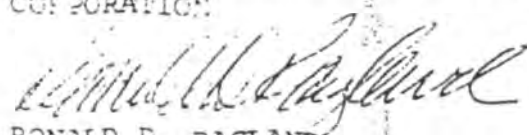
Gentlemen:

Enclosed herewith is an application submitted on behalf of Mesa Petroleum Company to inject water into the Judith River Formation, Poplar Field, Roosevelt County, Montana. Also enclosed is Sundry Notices and Report of Wells, Form 2, requesting a permit to drill the disposal well together with a check in the amount of \$25.00 for the permit.

There are no drilling or producing wells, or wells which have produced within one-half mile radius of the proposed input well, other than the Mesa Petroleum Biere No. 1-22. It is Mesa's intention to use the rig presently stacked on the Biere 1-22 well location for the drilling of the proposed salt water disposal well. Inasmuch as there are no other operators of producing wells within one-half miles of the proposed input well, it is respectfully requested that the commission grant administrative approval to drill the salt water disposal well at the earliest possible date, before a need is found for the rig presently stacked at the Biere No. 1-22 location.

Very truly yours,

PETROLEUM ENGINEERING & MANAGEMENT
CORPORATION


RONALD D. RAGLAND
for MESA PETROLEUM

RDR:kw

enc.

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

(SUBMIT IN QUADRUPPLICATE)

TO

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

NOTICE

THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

Notice of Intention to Drill Water Injection <input checked="" type="checkbox"/>	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

June 16, 1970

Following is a notice of intention to do work on land ~~XXXXX~~ leased described as follows:
LEASE BiereMONTANA
(State)

Roosevelt

(County)

Poplar

(Field)

Well No. 1 - W 22 28 N. 51 E.
(m. sec.) (Township) (Range) (Meridian)The well is located 1750 ft. from ~~X~~ S line and 140 ft. from ~~X~~ W line of Sec. 22

LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the ~~XXXXX~~ ground above the sea level is 2075

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Objective sand - Judith River

Casing - 8 -5/8" cemented to surface from approximately 1000'

AMOUNT RECEIVED — 0 —
DRILLING PERMIT NO. 55622
RECEIPT NO. Water Injection Well

CORES AND CUTTINGS NOT REQUIRED.

Approved subject to conditions on reverse of form

Date

By

District Office Agent

Title

Company MESA PETROLEUM COMPANY

By

Title Petroleum Engineer Consultant

Address 250 Securities Bldg., Billings,
Montana 59101COMMISSION USE ONLY
API WELL NUMBER

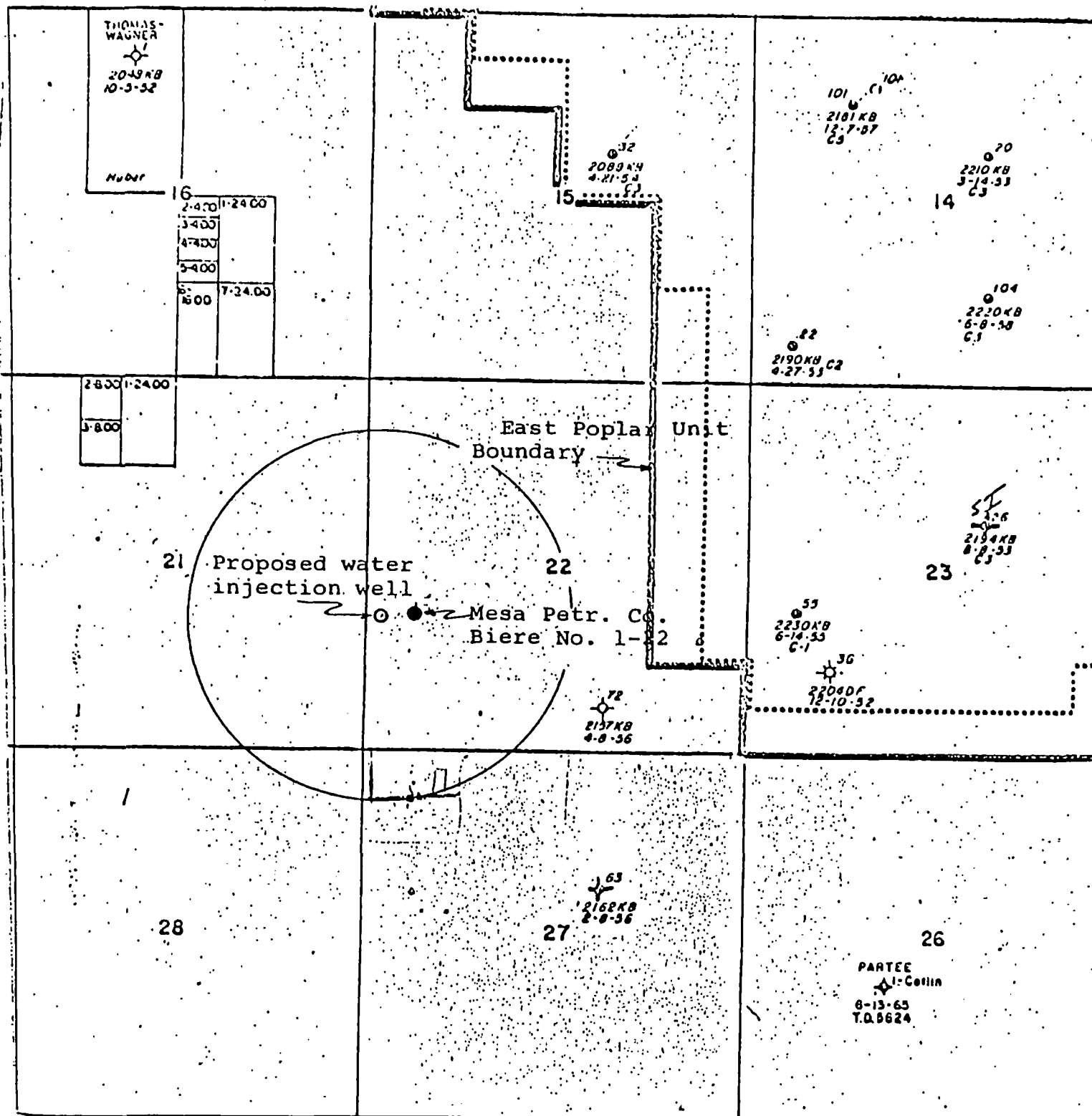
NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

OVER

25	01815	2110419
STATE	COUNTY	WELL

1. Any person, before commencing the drilling of any oil or gas well, shall secure from the commission a drilling permit and shall pay to the commission therefor for the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand (7,000) feet and deeper; one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Oil and Gas Conservation Commission of the State of Montana.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method to act as a tie in case an unexpected flow of oil, gas, or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc., must be presented on Sundry Notices and Report of Wells form for approval by agent prior to commencement of work.
6. All substantial showings of oil or gas must be tested for commercial possibilities before drilling ahead. Each such showing must be adequately protected by casing, mud or cement, as drilling progresses.
7. The production string must be cemented unless a formation shut-off or packer is approved by the agent. Sufficient cement must be used to protect the casing and possible productive formation exposed in the process of drilling not otherwise protected.
8. All production strings of casing must be tested by bailing or pressure to determine if there is a tight bond with the formation or possible leaks in the casing. The results of the test must be reported on Sundry Notices and Report of Wells form, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
9. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination when an agent visits the well.
10. All producing wells must be marked with name of the operator, number of the well, and location, using reasonable precautions to preserve these markings at all times.
11. Copies of all directional surveys, electrical logs, or tops from electrical log if electric survey is run, formation tests, and cementing record, as furnished by the cementing company, etc., must be filed with the State Inspector of the district together with four copies of the log, upon completion of the well.
12. All work must be done in conformity with the regulations of the Oil & Gas Conservation Commission of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.



MESA PETROLEUM CO. PROPOSED WATER INJECTION SYSTEM

POPLAR FIELD
ROOSEVELT COUNTY, MONTANA

EXHIBIT 'B'

Ronald D. Ragland

6/16/70

BEFORE THE OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

IN THE MATTER OF THE APPLICATION OF
MESA PETROLEUM COMPANY FOR PERMIT TO
INJECT WATER INTO THE JUDITH RIVER
FORMATION, POPLAR FIELD, ROOSEVELT
COUNTY, MONTANA.



A P P L I C A T I O N

COMES NOW the applicant, MESA PETROLEUM COMPANY, and in support of its application as above entitled, respectfully shows to the Oil and Gas Conservation Commission of Montana, that:

1. Mesa Petroleum Company has submitted to the Montana Oil and Gas Conservation Commission a Notice of Intent to drill a water injection well at the following location:

1750' FSL and 140' FWL Sec. 22 T28N-R51E
Roosevelt County, Montana.

2. Mesa Petroleum Company has completed a producing oil well known as the Biere No. 1-22, NW SW Section 22-Township 28 North, Range 51 East, Poplar Field, Roosevelt County, which will be served by the proposed water injection well.

3. The Biere No. 1-22 is completed in the Charles 'C' Formation with a notch in casing at 5790' and is presently shut-in pending installation of surface production equipment and salt water disposal facilities.

4. The proposed injection formation is the Judith River zone located at a depth of approximately 698' - 878' in the Mesa Petroleum Company Biere No. 1-22 and is described as a fine to medium grained sandstone.

5. The top of the Judith River Formation is found at +1388 feet above sea level in the Mesa Petroleum Company Biere No. 1-22.

6. Attached as Exhibit 'A' is a portion of the Laterolog-Gamma Ray Log of the Mesa Petroleum Company Biere No.

1-22 marked to show the approximate top and base of the Judith River Formation.

7. The proposed injection well will be drilled to a depth of approximately 1000', cased with 8-5/8" pipe and cemented to the surface. The lower portion of the Judith River Formation will be perforated and stimulated as necessary to obtain adequate injection rates.

8. It is anticipated that approximately 1000 barrels per day of produced water from the Charles 'C' formation in the Mesa Petroleum Company Biere No. 1-22 will be injected into the proposed input well.


9. Mesa Petroleum Company with Post Office address, Box 2009, Amarillo, Texas, is the operator of the Biere No. 1-22 producing well and will operate the proposed salt water disposal well and injection system.

10. Attached as Exhibit 'B' is a plat showing the proposed injection well location and the Mesa Petroleum Company Biere No. 1-22. There are no drilling or producing wells or wells which have produced, other than the Mesa Petroleum Company Biere No. 1-22, NW SW Section 22 - Township 28 North, Range 51 East, within the one-half mile radius of the proposed salt water disposal well.

WHEREFORE, Mesa Petroleum Company requests that it be permitted to drill a water disposal well and inject produced salt water from the Charles 'C' zone into the Judith River Formation in said disposal well as heretofore set forth.

Respectfully submitted:

THE PETROLEUM ENGINEERING & MANAGEMENT CORPORATION



RONALD D. RAGLAND
Petroleum Engineer
Consultant for Applicant
250 Securities Building
Billings, Montana 59101

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

IN THE MATTER OF THE APPLICATION)
OF MESA PETROLEUM COMPANY FOR)
AN ORDER PERMITTING UNDERGROUND)
DISPOSAL OF WATER FROM THE)
CHARLES 'C' ZONE OF THE POPLAR)
FIELD, ROOSEVELT COUNTY, MONTANA)

ORDER NO. 15-70A

ADMINISTRATIVE

In this matter, Mesa Petroleum Company, applicant, seeks permission from the Commission to dispose of salt water produced in the Poplar Field, Roosevelt County, Montana. The application is dated June 16, 1970, and was received by the Commission on June 16, 1970.

The application is complete in all respects, and the same satisfies all of the provisions and requirements of Commission Rule No. 228.3 and all sub-paragraphs thereunder. All pertinent information concerning said application has been supplied to the Commission, and the same does not pertain to secondary recovery of a waterflood plan.

The applicant states that the proposed disposal well will be located 1750 feet from the south line and 140 feet from the west line of Section 22, Township 28 North, Range 51 East, Roosevelt County, Montana. The proposed formation of injection is the Judith River Zone. Applicant proposes to inject approximately 1,000 barrels of water per day.

Applicant states there are no drilling or producing wells or wells which have produced, other than applicant's Biere No. 1-22, within a one-half mile radius of the proposed salt water disposal well.

IT IS THEREFORE ORDERED by the Oil and Gas Conservation Commission of the State of Montana that the application of Mesa Petroleum Company to dispose of salt water produced in the Poplar Field, Roosevelt County, Montana, be, and the same is hereby approved, and that the applicant be permitted to dispose of said salt water by injection into its well as designated in the above order.

IT IS FURTHER ORDERED that at such time as injection is commenced, that the operator instigate its Report of Subsurface Injections, through the use of Commission Form No. 5 to be submitted to the Commission office in Helena, Montana.

Dated at Helena, Montana, this 22nd day of June, 1970.

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

(SEAL)

Norman J. Beaudry
Executive Secretary

JUL 1984

TO

RECEIVED

NOTICE

THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.OIL AND GAS CONSERVATION COMMISSION
STATE OF MONT.
BILLINGS
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well <i>SWD</i>	X	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 18

1984

Following is a notice of intention to do work on land owned described as follows:

LEASE Biere

MONTANA
(State)Roosevelt
(County)Poplar
(Field)Well No. Biere #A-1 (SWD) *NWSW* 22 28N 51E
(m. sec.) (Township) (Range) (Meridian)The well is located 1750 ft. from *XX* line and 140 ft. from *XX* line of Sec. 22
S *W*

LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the derrick floor above the sea level is 2087' RB

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Mesa Petroleum Co. proposes to plug this well as the Biere 1-22 oil well is no longer economic to produce. Subject well was TDED at 998', with 8 5/8" casing set at 998', and 5 1/2" casing set at 749'. Mesa proposes to set a cast iron bridge plug at 740', above perforations at 796'-834'. Fill 5 1/2" casing with cement from 740' to surface. Set dry hole marker. Both 8 5/8" and 5 1/2" casings were cemented to surface.

Approved subject to conditions on reverse of form

Date JUL 23 1984

By *Cherie Haughey*
District Office Agent

Title

Company Mesa Petroleum Co.

By *Randy J. Nordan*

Title Regulatory Coordinator

Address P. O. Box 2009 / Amarillo, Texas 79189

COMMISSION USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

OVER



Locate well by 1/4 section measurement from legal subdivision 1. Lease or property
line and nearest drilling or producible well, if any.

Form No. 2

File at
Billings
or Shelby

Rge.....

Form No. 2

File at
Billings
or Shelby

Locate
Well
Correctly

Locate
Lease
Boundary

Twp.....

SCALE—1"=2000'

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well, shall secure from the commission a drilling permit and shall pay to the commission therefor for the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand (7,000) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Oil and Gas Conservation Commission of the State of Montana.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method to act as a tie in case an unexpected flow of oil, gas, or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc., must be presented on Sundry Notices and Report of Wells form for approval by agent prior to commencement of work.
6. All substantial showings of oil or gas must be tested for commercial possibilities before drilling ahead. Each such showing must be adequately protected by casing, mud or cement, as drilling progresses.
7. The production string must be cemented unless a formation shut-off or packer is approved by the agent. Sufficient cement must be used to protect the casing and possible productive formation exposed in the process of drilling not otherwise protected.
8. All production strings of casing must be tested by bailing or pressure to determine if there is a tight bond with the formation or possible leaks in the casing. The results of the test must be reported on Sundry Notices and Report of Wells form, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
9. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination when an agent visits the well.
10. All producing wells must be marked with name of the operator, number of the well, and location, using reasonable precautions to preserve these markings at all times.
11. Copies of all directional surveys, electrical logs, or tops from electrical log if electric survey is run, formation tests, and cementing record, as furnished by the cementing company, etc., must be filed with the State Inspector of the district together with four copies of the log, upon completion of the well.
12. All work must be done in conformity with the regulations of the Oil & Gas Conservation Commission of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

MAC 36-3.18(10)-S18020
 MAC 36-3.18(10)-S18030
 MAC 36-3.18(10)-S18140
 MAC 36-3.18(10)-S18170
 MAC 36-3.18(10)-S18200
 MAC 36-3.18(10)-S18310
 MAC 36-3.18(10)-S18330
 MAC 36-3.18(14)-S18380

NOTICE
 THIS FORM BECOMES A
 PERMIT WHEN STAMPED
 APPROVED BY AN AGENT
 OF THE BOARD.

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	X
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

October 5

1984

Following is a notice of intention to do work on land owned described as follows:
 report of work done leased

LEASE Biere

MONTANA Roosevelt

(County)

Poplar
(Field)

Well No. Biere #A-1 (SWD) 22

(m. sec.)

28N

(Township)

51E

(Range)

(Meridian)

The well is located 1750 ft. from ~~XX~~ S line and 140 ft. from ~~XX~~ W line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2087' KB

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

*State names of and expected depths to objective sands show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.

DETAILS OF WORK
RESULT

Subject well was plugged on 9/15/84 by squeezing perfs w/140 sxs class "H" cement and filling 5 1/2" casing and tubing w/110 sxs class "H" cement. Cut casing 4' below ground level. Welded cap on casing.

RECEIVED
 OCT 09 1984
 EPA REGION VIII
 DRINKING WATER BRANCH

Approved subject to conditions on reverse of form

Date

By District Office Agent

Title

Company Mesa Petroleum Co.

By Randy Nordsven

Title Regulatory Agent

Address P. O. Box 2009 Amarillo TX 79189

BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT PLUGGED OR EXTENSION REQUESTED.

OVER

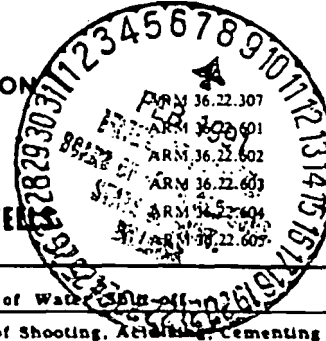
STATE	COUNTY	WELL
25		

(SUBMIT IN QUADRUPPLICATE)

TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

**BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA**
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELL

ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

Notice of Intention to Drill *		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	X
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

February 5, 1991

Following is a ~~notice of intention to drill~~ report of work done on land ~~owned~~ described as follows:

LEASE TYPE LEASE BIERE
(Private, State, Federal, Indian)

MONTANA ROOSEVELT POPLAR
(State) (County) (Field)

Well No. BIERE # A-1 (SWD) SEC. 22 T28N R51E
(m. sec.) (Township) (Range) (Meridian)

The well is located 1750 ft. from ~~XX~~ S line and 140 ft. from ~~XX~~ W line of Sec. 22

* For notice of intention to drill, write the API# or the well name of another well on this lease if one exists

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2087'

READ CAREFULLY **DETAILS OF PLAN OF WORK** **READ CAREFULLY**

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

**DETAILS OF WORK
RESULT**

Subject well was plugged and abandoned on September 15, 1984 by filling the 5½" casing and tubing with 250 sx Class "H" cement. Cut casing 4' below ground level and welded cap on casing. Well P&A 9/15/84

LOCATION INSPECTED & APPROVED

Approved subject to conditions on reverse of form

Date FEB 12 1991

By *Hyndee T. Hall*
District Office Agent Title

Company MESA OPERATING LTD PARTNERSHIP

By *Cathy L. McKee*

Title Sr. Regulatory Analyst

Address P.O. Box 2009, Amarillo, Texas 79189

BOARD USE ONLY
API WELL NUMBER

STATE COUNTY WELL
10 985 210419

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL

Form 4 UIC	 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION <i>(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)</i>	EPA ID NUMBER U
-------------------------	---	--------------------

**READ ATTACHED INSTRUCTIONS BEFORE STARTING
FOR OFFICIAL USE ONLY**

Application approved mo day year	Date Received mo day year	Permit/Well Number	Comments

II. FACILITY NAME AND ADDRESS

Facility Name
Biere #A-1 (SWD)

Street Address
Poplar Field

City State ZIP Code
Amarillo TX 79189

IV. OWNERSHIP STATUS (Mark 'x')

<input type="checkbox"/> A. Federal	<input type="checkbox"/> B. State	<input checked="" type="checkbox"/> C. Private
<input type="checkbox"/> D. Public	<input type="checkbox"/> E. Other (Explain)	

V. SIC CODES

1311	1382
------	------

VI. WELL STATUS (Mark 'x')

<input checked="" type="checkbox"/> A. Operating	Date Started mo day year 7 4 70	<input type="checkbox"/> B. Modification/Conversion	<input type="checkbox"/> C. Proposed
--	---------------------------------------	---	--------------------------------------

VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)

<input checked="" type="checkbox"/> A. Individual	<input type="checkbox"/> B. Area	Number of Existing wells	Number of Proposed wells	Name(s) of field(s) or project(s)

VIII. CLASS AND TYPE OF WELL (see reverse)

A. Class(es) (enter code(s))	B. Type(s) (enter code(s))	C. If class is "other" or type is code "x," explain	D. Number of wells per type (if area permit)
II	D	N/A	N/A

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT

A. Latitude	B. Longitude	Township and Range	Line	Feet from	Line	Feet from	Line
Deg Min Sec	Deg Min Sec	Twsp Range Sec 1/4 Sec	Line	Feet from	Line	Feet from	Line
1		28N 51E 22 SW	S	1750	W	140	

X. INDIAN LANDS (Mark 'x')

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

XI. ATTACHMENTS

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)
 FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A — U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application:

XII. CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

A. Name and Title (Type or Print) Randy Z. Nordsven, Regulatory Coordinator	B. Phone No. (Area Code and No.) (806) 378-4887
C. Signature 	D. Date Signed 7-17-84

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

Well Class and Type Codes

Class I	Wells used to inject waste below the deepest underground source of drinking water.
Type "I"	Nonhazardous industrial disposal well
"M"	Nonhazardous municipal disposal well
"W"	Hazardous waste disposal well injecting below USDWs
"X"	Other Class I wells (not included in Type "I," "M," or "W")
Class II	Oil and gas production and storage related injection wells.
Type "D"	Produced fluid disposal well
"R"	Enhanced recovery well
"H"	Hydrocarbon storage well (excluding natural gas)
"X"	Other Class II wells (not included in Type "D," "R," or "H")
Class III	Special process injection wells.
Type "G"	Solution mining well
"S"	Sulfur mining well by Frasch process
"U"	Uranium mining well (excluding solution mining of conventional mines)
"X"	Other Class III wells (not included in Type "G," "S," or "U")
Other Classes	Wells not included in classes above.
	Class V wells which may be permitted under §144.12
	Wells not currently classified as Class I, II, III, or V.

Attachments to Permit Application

Class	Attachments
I new well	A, B, C, D, F, H — S, U
existing	A, B, C, D, F, H — U
II new well	A, B, C, E, G, H, M, Q, R; optional — I, J, K, O, P, U
existing	A, E, G, H, M, Q, R — U; optional — J, K, O, P, Q
III new well	A, B, C, D, F, H, I, J, K, M — S, U
existing	A, B, C, D, F, H, J, K, M — U
Other Classes	To be specified by the permitting authority



RADIOACTIVITY CALIBRATION DATA	
COMPANY <u>MESA PETROLEUM COMPANY</u>	SCHL. IR <u>959</u>
WELL <u>BIERE, S.W.D. #1</u>	SCHL. TO <u>950</u>
FIELD <u>WILCOX</u>	ORLR TO <u>950</u>
COUNTY <u>ROOSEVELL</u> STATE <u>MONTANA</u>	Elev. <u>2087</u>
	OF <u>----</u>
	CI <u>2075</u>

NW SW
85-21049

LOCATE WELL CORRECTLY

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BUREAU OF OILFIELD

LOG OF WELL

Company MESA PETROLEUM CO. Lease BIERE Well No. SWD 81-W
 P. O. Box 2009
 Address AMERILLO, TEXAS Farm (or Area) NOPLAR
 The well is located 1750 ft. from (S) line and 160 ft. from (W) line of Sec. 22
 Sec. 22 T. 25N R. 51E County ROOSEVELL Elevation 2087 M.B.
 Commenced drilling June 25, 1970 19 1970 Completed July 9 19 1970
 The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.
 Completed as WATER DISPOSAL Signed _____
 (well, gas well, dry hole) Title Consultant
 Date July 17, 1970

IMPORTANT ZONES OF POROSITY
(denote oil by O, gas by G, water by W; state formation if known)

From	To	From	To
From _____	To _____	From _____	To _____
From _____	To _____	From _____	To _____
From _____	To _____	From _____	To _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Amt	From	To	Feet of Casing	Cut and Picked from
8-in. O	24.8	J-55	8 rd	928			500	

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Tubing Amt	From	To	Feet of Tubing	Cut and Picked from
2 1/2-in. O	11.2	J-55	8 rd	720			796-630, 804-808, 812-820	

COMPLETION RECORD

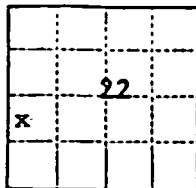
Rotary tools were used from _____ to _____ 998
 Cable tools were used from _____ to _____
 Total depth 998 ft. Plugged back to 950 T.D. Open hole from _____ to _____

PERFORATIONS

Interval	Number and Size and Type	Interval	Number and Size and Type	Pressure
796-800	5-1/2" J55	736-750	5-1/2" J55	400
804-808	5-1/2" J55			
812-820	5-1/2" J55			
825-830	5-1/2" J55			

INITIAL PRODUCTION

Injecting in _____ (paul) formation. Initial injection 966 B.W.D. at 390 P.S.I.
 L.P. _____ barrels of oil per _____ hours
 _____ Mcf of gas per _____ hours
 _____ barrels of water per _____ hours, or _____ % W.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION DIVISIONSection 22T. 28 NR. 51 E

INDIVIDUAL WELL RECORD

Principal Mer.PATENTED LAND
~~SEABOARD~~Date July 21, 1970Reference No. 50State MontanaLessee or owner BiereCounty RooseveltField PoplarOperator Mesa Petroleum Co.District BillingsWell No. 1-WSubdivision SW NW SWLocation 1750' from S line and 140' from W line of Section 22Drilling approved June 18, 19 70Well elevation 2075 Gr. feet.Drilling commenced June 24, 19 70Total depth 998 feet.

Drilling ceased _____, 19____

Initial production *Completed for water disp.
~~production~~ July 9, 19 70

Gravity A. P. I. _____

Abandonment approved _____, 19____

Initial R. P. _____

Geologic Formations

Productive Horizons

Surface	Lowest tested	Name	Depths	Contents
<u>Bearpaw</u>	<u>Judith River ?</u>			

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1970						Drg.	SWD					
1984							N/A					

Original and Replacement

REMARKS *Completed as SWD in Judith RiverInjection rate 966 BWPD at 390 PSI

jr

CASING RECORD

8-5/8" cc 988' w/500 sx.

FORMATION TOPS

None available.

FORT PECK RESERVATION

INDIVIDUAL WELL INVENTORY RECORD

Description: T. 28 N; R. 51 E; Sec. 22 ; SW NW SW

Lease No. _____: BIA Contract: _____

Owner: _____ Lessee: _____

Operator: Mesa Petroleum Co. Well No. 1-W

Name: _____

Wells Being Drilled - Tool Pusher: _____

Drillers: _____

Date Drilling Commenced: June 24, 1970

Date Drilling Ceased: _____, 19____

Date of First Production: _____, 19____

Total Depth: 998 feet

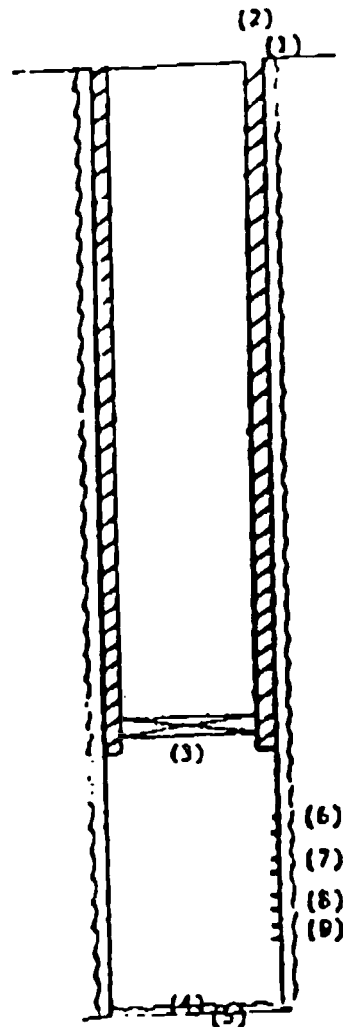
Well Status: Salt water deposit (1970)

Date of Inventory: _____, 19____

Well Site Inventory and Remarks:

*Completed as SWD in Judith River, Injection rate 966 BWPd at 390 psi

MESA PIPELINE CO.
 Blere #3 S&P
 1750' TSL & 140' FWL NPSN
 Sec. 22, T26N, R53E
 Roosevelt County, Montana



Grd. 2075' -- KB 2067'

- (1) 8 5/8" - 74' ST&C, Rgs 2 set @ 998' KB cmt. w/500 s&s., c&t. to surface
- (2) 5 1/2" 15.50 Set @ 746.90', c&t. w/25 s&s., c&t. to surface
- (3) Cast Iron Bridge Plug set at 740'. Cement 5 1/2" casing from CIBP to Surface.
- (4) PBTD @ 949' KB
- (5) TD @ 998' KB
- (6) Perf. 796-800 4 Hps
- (7) Perf. 804-808 4 Hps
- (8) Perf. 812-820 4 Hps
- (9) Perf. 825-834 4 Hps

SERVICE & TESTING

Poor Quality Source Document

The following document
images have been
scanned from the best
available source copy.

To view the actual hard copy,
contact the Region VIII Records
Center at (303) 312-6473.

OWNER

Charge to Wells Dr. Company DELIVERED TO Wells Dr. Company

ADDRESS 107 AMERZILL TEXAS SHIPPED VIA 1 LOCATION 1 CODE 0001

DUNCAN USE ONLY CUST. INV. REQ. ORIG. & REQUISITION LOCATION 2 CODE 0002

ORDER NO. 3 LOCATION 3 CODE 0003

TOTAL ACID - 30 DAYS 2.00 1.00 WELL TYPE B- CODE 0004

NO. COPIES 1 TERMS: DUE BY THE 20TH OF FOLLOWING MONTH. INTER CHARGED AFTER 60 DAYS FROM DATE OF INVOICE

Cash discount allowed if paid by due date. \$ 0.00

Tax adjustment may be deducted if discounted \$ 0.00

TYPE AND PURPOSE OF JOB Wells Dr. Company

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2	
		L	O		QTY.	MEAS.	QTY.	MEAS.
R200-000				Material Charge	1.00	cu. ft.		
R201-000				Acid HCl	2.00	gal.		
R202-000				Acid on (acid) - 1	1.00	gal.		
R203-000				Service Charge				
R204-000				Service Charge				
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R397-000				Service Charge				
R398-000				Service Charge				
R399-000				Service Charge				
R400-000				Service Charge				

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X _____
Customer or His Agent

TAX REFERENCES

SL

Halliburton Operator

RETAIN

MESA PET CORP. KALAMAZOO MICHIGAN

CHARGE TO MESA PET CORP

ADDRESS E. A. 2.9 A. HAMILTON, TEXAS

DUNCAN USE ONLY

TYPE AND PURPOSE OF JOB Cont. Surface Log

DELIVERED TO		LOCATION	CODE
SHIPPED VIA		LOCATION	CODE
CUST. INV. REQ. ORIG. &		LOCATION	CODE
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4		ORDER NO.	BULK MATERIAL DELIVERY TICKET NO. B-53937
NO. COPIES		TOTAL ACID - 30 DAYS	WELL TYPE
			CODE
TERMS:		DUE BY THE 20TH OF FOLLOWING MONTH. INTEREST CHARGED AFTER 60 DAYS FROM DATE OF INVOICE.	
		Cash discount allowed if paid by due date.	
		Tax adjustment may be deducted if discounted	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE L D	DESCRIPTION	UNITS 1 QTY. MEAS.	UNITS 2 QTY. MEAS.	UNIT PRICE
501 032			Pump Charge	1000 ft		
500 117			M. large	30 mi		.85
502 502			Top Wood Plug (2A &)	100	22 in	
			400 CU. FT. Perm. Charge			
			Cont. Cementing of			
505 040			Perm. Charge of Cont.	200	3/4 in	1.81
506 105			Perm. Charge of	200	3/4 in	1.87
507 906			Perm. Charge of	200	3/4 in	1.85
507 202			Perm. Charge of	200	3/4 in	1.83
508 040			Perm. Charge of	200	3/4 in	1.81
			Ticket Continuation Page 2			
			SERVICE CHARGE ON MATERIALS RETURNED		CU. FT.	
			SERVICE CHARGE	514	CU. FT.	.95
			93 445	TOTAL WEIGHT 130	LOADED MILES 23.2	TON MILES

TAX REFERENCES

SUB TOTAL

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X _____
 Customer or His Agent

_____	_____	_____	TAX
_____	_____	_____	TAX
_____	_____	_____	TAX
_____	_____	_____	TOTAL

EXTRA COPY

PRODUCTION &
INJECTION DATA

·
·

·

Year	Oil Prod BBLs	Gas Prod MCF	Water BBLs	# of Wells	Days On	BWPD AWPD
1973	15,412		366,491	1		1004
1974	9,428		305,944	1		838
1975	8,269		150,800	1		413
1976	2,947		19,600	1		54
1977	10,092		360,906	1		989
1978	7,425		435,660	1		1194
1979	5,794		416,400	1		1141
1980	4,769		390,000	1		1068
1981	4,755		414,000	1		1134
1982	3,169		403,850	1		1106
1983	2,555		418,200	1	349	1146
1984	1,109		230,100	1	181	630

TOTAL: 3,911,951 BBLs

EST. FOR 1970, 1971 & 1972 AS FOLLOWS;

1970 - START 6-8-70

206 DAYS @ 1000 BWPD = 206,000 BW

1971 - 365 DAYS @ 1000 BWPD = 365,000 BW

1972 - 365 DAYS @ 1000 BWPD = 365,000 BW

1973 - 1984 = 3,911,951 BW

TOTAL EST. VOLUME (1970-1984) = 4,847,951 BW

1.89 % of all total
water injected

Compliance & Env. Justice

FEB 25 1991

Received
Office of Enforcement

Table 2. Approximate quantities of brine injected through brine-injection wells in the East Poplar oil field study area

[Site-numbering system illustrated in figure 4. Abbreviations: bbl/d, barrels per day; gal, gallon; gal/yr, gallons per year; Kjr, Judith River Formation (Upper Cretaceous); Kd, "Dakota Sandstone" (Lower Cretaceous); Mm, Madison Group (Mississippian); Mmc, Mission Canyon Limestone of Madison Group; Ab, abandoned; Ac, active. Symbol: --, no data or not applicable; ?, uncertain]

Site number and well name	Geo-logic unit receiving injected water	Well depth below land surface (feet)	Site status	Average injection rate of water (bbl/d)	Maximum injection rate of water (bbl/d)	Time Interval during which injection occurred	Approximate quantity of brine injected over time interval (millions of gal)		Remarks
							Based on average injection rate	Based on maximum injection rate	
28N51E02ACDB01 Murphy 2-D	Kjr	834	Ab	--	--	01/62 - (?)	--	--	Reported injection test of 2,880 bbl/d of water in 1961; at this rate about 44,150,400 gal/yr would have been injected for an unknown number of years. Abandonment date unknown.
28N51E03BCAC01 Murphy 80-D	Kd	3,575	Ac	2,700	4,500	01/64 - present (12/95)	1,283	2,138	--
28N51E04BCAC01 Murphy 59-D	Kd	3,365	Ab	4,500	6,500	06/61 - 06/86	1,725	2,491	--
28N51E10ABAC01 Huber 4	Mm	6,063	Ab	--	--	10/70 - (?)	--	--	Injection rate and abandonment date unknown.
28N51E10ABAD01 Huber 1-W	Kjr	881	Ab	--	--	10/61 - (?)	--	--	Reported injection rate of 696 bbl/d of water; at this rate about 10,669,700 gal/yr would have been injected for an unknown number of years. Abandonment date unknown.
28N51E10DACA01 Grace 110X-D	Mmc	7,000	Ab	1,827	3,000	10/73 - 05/85	324	533	--
28N51E10DBAD01 Murphy 8-D	Kjr	780(?)	Ac	7,100	8,400	01/73 - present (12/95)	2,395	2,833	--
28N51E22BDBD01 TXO SWD-1	Kjr	850	Ab	--	--	05/81 - 06/84	--	--	Injection rate unknown.
28N51E22CBCB01 Mesa 1-W (Biere 1)	Kjr	998	Ab	--	--	07/70 - 09/84	--	--	Injection rate unknown.
29N50E11CDCA01 Grace (Goings Gov't) SWD-1	Kd	3,825(?)	Ab	--	--	03/77 - 08/90	--	--	Injection rate unknown.
29N50E25DCDB01 Murphy 46	Mm	5,864	Ab	--	--	04/56 - 08/59(?)	--	--	Reported injection rate of 2,302 bbl/d of water; at this rate about 117,515,000 gal total (or 35,290,000 gal/yr) would have been injected.
29N51E07BCDB01 Grace (Buck Elk) 2	Kjr	5,933	Ab	525	1,500	12/67 - 01/86	153	437	Brine reportedly was injected sporadically.
29N51E07BDB 01 Polumbus (Buck Elk) 1-W	Kjr	1,207	Ab	--	--	02/61 - 05/68	--	--	Reported injection rate of 600 bbl/d of water; at this rate about 73,584,000 gal total (or 9,198,000 gal/yr) would have been injected.
29N51E08DCCA01 Murphy (Empire State) Smith 1	Mm	5,982	Ab	--	--	08/60 - (?)	--	--	Injection rate and abandonment date unknown.
29N51E16BAC 01 Murphy (Empire State) Rehder 7	Mm	5,750	Ab	--	--	09/60 - (?)	--	--	Injection rate and abandonment date unknown.
29N51E16DDDB01 Murphy (Owens-Simons) 1	Mm	5,780	Ab	--	--	10/60 - (?)	--	--	Injection rate and abandonment date unknown.
29N51E19DDBA01 Murphy 5-D	Kd	3,583	Ac	3,000	5,000	02/76 - present (12/95)	912	1,520	--
29N51E28CC 01 Murphy 29-D	Kjr	--	Ab	3,225	4,725	04/81(?) - 10/87	321	471	--
29N51E30DDDD01 Murphy 1-D	Kd	3,431	Ac	4,500	7,500	09/57 - present (12/95)	2,639	4,398	--
29N51E33BBAB01 Murphy 6-D	--	--	Ab	--	--	--	--	--	Injection rate and completion and abandonment dates unknown.

- 1997 - ONE ACTIVE JUDITH RIVER INJECTOR
MURPHY 8-D (28N51E10DBAD01)

WSN	UWI (APINum)	Operator	Well Number	WELL BHTUNCOR.P	WELL CUMOIL	WELL CUMGAS	WELL CUMWTR	Township	Range	Section
47	250850538700	TENNECO OIL CO	1	176				28N	51E	25
122	250850539400	MURPHY OIL USA INC	4		44804	519	1265720	29N	51E	33
80	250850700600	MURPHY ET AL	91	168	23161	226	444704	29N	51E	17
109	250850800900	MURPHY C H & CO	10		199118	1606	1727059	29N	51E	30
14	250852103300	POLUMBUS E A JR	110-X					28N	51E	10
209	250852104700	MESA PETROLEUM CO	1-22	205	155544	0	3911951	28N	51E	22
210	250852104900	MESA PETROLEUM CO	1-W					28N	51E	22
54	250852110800	POLUMBUS CORP THE	3	175	12078	760	92453	29N	50E	12
85	250852111100	MURPHY OIL USA INC	5-D					29N	51E	19
55	250852111400	MURPHY OIL USA INC	111		11718	0	215331	29N	50E	12
38	250852120100	JUNIPER PETROLEUM CORP	1	208	259	0	3515	28N	51E	21
39	250852126700	TEXAS OIL & GAS CORP	A-1		8284	0	459293	28N	51E	22
40	250852128900	TEXAS OIL & GAS CORP	2					28N	51E	22
41	250852131300	TEXAS OIL & GAS CORP	1					28N	51E	22
42	250852133600	TEXAS OIL & GAS CORP	1					28N	51E	22
50	250852139200	MAPCO PRODUCTION CO	3-34	187				28N	51E	34
51	250852147200	HARPER OIL CO	11-8					28N	52E	8
108	250852153800	MURPHY OIL USA INC	112		64793	0	2611581	29N	51E	30
101	250852161500	MURPHY EXPL & PROD CO	114		8289	0	360181	29N	51E	28
4	250852161800	MURPHY EXPL & PROD CO	116		5913	1456	1071	28N	51E	2
115	250852162100	MURPHY EXPL & PROD CO	115					29N	51E	31
95	250856000400	MURPHY OIL USA INC	97	175	208742	1616	262812	29N	51E	20
102	250856000700	MURPHY C H & CO	29	170				29N	51E	28
35	R-994828-0	MURPHY OIL USA INC	108					28N	51E	14

SURFACE EQUIPMENT



Location Of Tank Battery & Pipeline Information

All wells on the Biere lease were plugged & abandoned in 1984. A relief well was drilled to 900' in 1985 to pump cement again into Biere 1-22 well.

The relief well was located 25' NNE of Biere #1-22. This relief well was plugged and abandoned in 1985 as per Mesa's well records.

All surface equipment was removed in 1989 as per information from Mesa Petroleum.

Currently, there are no records in Pioneer's files as to tank battery location, equipment nor any information as to the old pit location's.

Pioneer will continue efforts to locate tank battery, pipelines & old pit location's.

Received
Office of Enforcement

FEB 25 2000

Compliance & Env. Justice

Received
Office of Enforcement

FEB 25 2000

Compliance & Env. Justice



Form No. 2
GENERAL RULES
P.O. Box 211
Big Horn 59101

(SUBMIT IN QUADRUPPLICATE)
TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Abandoning Casing
Notice of Intention to Drill or Re-drill Well	Subsequent Report of Re-drilling or Repair
Notice of Intention to Shoot Acid or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well Notices
Notice of Intention to Abandon Well	Report of Sealing

(Indicate Above by Check Mark Nature of Report, Nature, or Other Data)

July 15

1984

Following is a notice of intention to do work on land owned described as follows:
~~RESERVED~~ LEASE Here

MONTANA
(State)

Roosevelt
(County)

Poplar
(Field)

Well No. Here #A-1 (SWD)

22
(in sec.)

28N
(Township)

51E
(Range)

(Meridian)

The well is located 1750 ft from line and 140 ft from line of Sec. 22

LOCATE ACCURATELY ON FLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the derrick floor above the sea level is 2087' RE

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective beds, show size, weight, and length of proposed casing; indicate mudding jobs, cementing points and all other important proposed work, particularly all details possible Shooting Acidizing Fracturing)

DETAILS OF WORK
RESULT

Mess Petroleum Co. proposes to plug this well as the Here 1-22 oil well is no longer economic to produce. Subject well was TDed at 998', with 8 5/8" casing set at 998', and 5 1/2" casing set at 749'. Mess proposes to set a cast iron bridge plug at 740', above perforations at 796'-834'. Fill 5 1/2" casing with cement from 740' to surface. Set dry hole marker. Both 8 5/8" and 5 1/2" casings were cemented to surface.

RECEIVED

JUL 31 1984

Approved subject to conditions on reverse of form

Date JUL 23 1984
ORIGINAL COPY SIGNED BY:

By: Charles F. Henshaw, Field Supervisor
District Office Agent

Title

Company Mess Petroleum Co.

By: Randy J. Mordane

Title Regulatory Coordinator

Address P. O. Box 2009 / Amarillo, Texas 79189

COMMISSION USE ONLY
API WELL NUMBER

1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: Report on this form is to be submitted to the District Agent for Approval in Quadruplicate
WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL

OVER
RE: NOCCC (RMA), CEN RECS, AOCU, WELL FILE, DENVER, PARTNERS, RZN

Form No. 2
GENERAL RULES
201 202 211
216 219 222 1

(SUBMIT IN QUADRUPPLICATE)
TO

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot Acidize or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing

(Indicate Above by Check Mark Nature of Report Sundry or Other Data)

September 26

19 84

Following is a ~~XXXXXX~~ or land owned ~~XXXXXX~~ described as follows:

LEASE Biere

MONTANA

Roosevelt

County

Poplar
Field

Well No. Biere BA-1 (SWD)

22

2BN

51E

(Township)

(Range)

(Meridian)

The well is located 1750 ft from ~~S~~ line and 140 ft from ~~W~~ line of Sec 22

LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the derrick floor above the sea level is 2087' KB

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to upper and lower sand, show size, weight, and length of proposed casing, indicate mudding job, cementing points and all other important proposed work particularly all other results Shooting, Acidizing, Fracturing)

DETAILS OF WORK
RESULT

Subject well was plugged on 9/15/84 by filling 5-1/2" casing and tubing with 250 sacks C1 "H" cement. Cut casing 4' below ground level. Welded cap on casing.

RECEIVED

SEP 27 1984

PRODUCTION RECORDS

Approved by _____

Date _____

By _____

District Office Agent

T.S.

Company, Mesa Petroleum Co.

By _____

Life Regulatory Agent

Attn: P.O. Box 2009, Amarillo, TX 79109

COMMISSION OFFICE
OF WELLS REG.



NOTE: Reports on this form to be submitted to the District Agent for Approval in Quadruplicate
WHEN USED AS PERMIT TO DRILL THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL

OVER

1. REPORTED DATA & RESULTS

cc: Cent Rods, Denver, Partners, Well File, Acctg, RN, EPA 0+1

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	X
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

October 5, 1984

Following is a notice of intention to do work on land owned described as follows:
report of work done leased

LEASE Biere

MONTANA Roosevelt

(State) (County)

Poplar
(Field)Well No. Biere #A-1 (SWD) 22 28N 51E
(m. sec.) (Township) (Range) (Meridian)The well is located 1750 ft. from $\frac{XX}{S}$ line and 140 ft. from $\frac{XX}{W}$ line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2087' KB

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK
RESULT

Subject well was plugged on 9/15/84 by squeezing perms w/140 sxs class "H" cement and filling 5½" casing and tubing w/110 sxs class "H" cement. Cut casing 4' below ground level. Welded cap on casing.

RECEIVED
OCT 09 1984
EPA REGION VIII
DRINKING WATER BRANCH

Approved subject to conditions on reverse of form

Date

By District Office Agent Title

Company Mesa Petroleum Co.

By Randy Nordsven
Randy Nordsven

Title Regulatory Agent

Address P. O. Box 2009 Amarillo TX
79189BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
25		

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED.

OVER

4

(SUBMIT IN QUADRUPPLICATE)

TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBURY

SUNDRY NOTICES AND REPORT OF WELLS



ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

Notice of Intention to Drill *		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	X
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

February 5, 1991

Following is a ~~notice of intention to drill~~ report of work done on land ~~owned~~ described as follows:

LEASE TYPE
(Private, State, Federal, Indian)

LEASE BIERE

MONTANA
(State)

ROOSEVELT
(County)

POPLAR
(Field)

Well No. BIERE # A-1 (SWD) SEC. 22 T28N R51E
(m. sec.) (Township) (Range) (Meridian)

The well is located 1750 ft. from ~~XX~~ S line and 140 ft. from ~~XX~~ W line of Sec. 22

* For notice of intention to drill, write the API# or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2087'

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Subject well was plugged and abandoned on September 15, 1984 by filling the 5½" casing and tubing with 250 sx Class "H" cement. Cut casing 4' below ground level and welded cap on casing. Well P&A 9/15/84

LOCATION INSPECTED & APPROVED

Approved subject to conditions on reverse of form

Date FEB 12 1991

By *Hayden P. Kelly* District Office Agent Title

Company MESA OPERATING LTD PARTNERSHIP

By *Carey L. McKee*
Title Sr. Regulatory Analyst

Address P.O. Box 2009, Amarillo, Texas 79189

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
21	285	210419

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

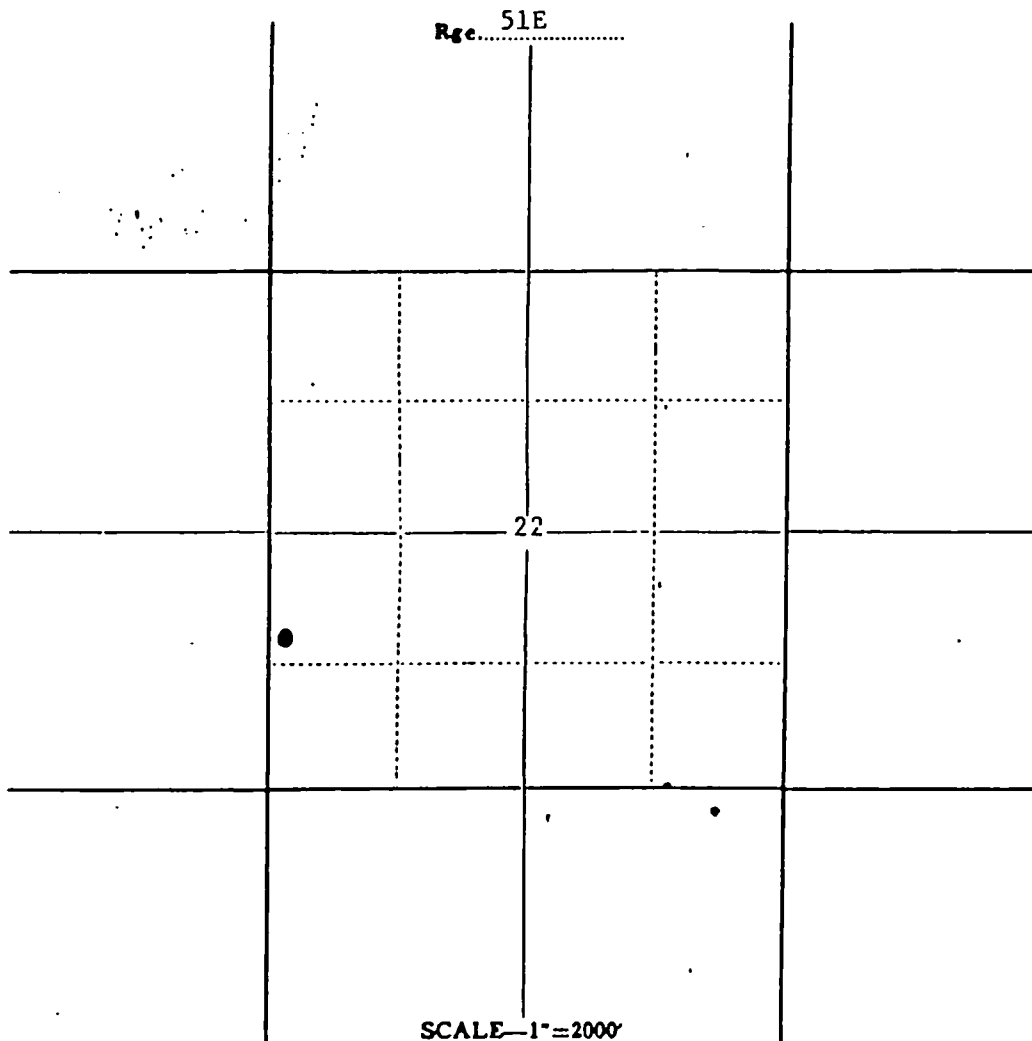
**Locate well by footage measurement from legal subdivision. (Section) line
and nearest drilling or producible well, if any.**

Form No. 2
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Locate
Well
Correctly

Twp. 28N



THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana. Date of spudding must be reported to the Board verbally or in writing within 72 hours of commencing drilling.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

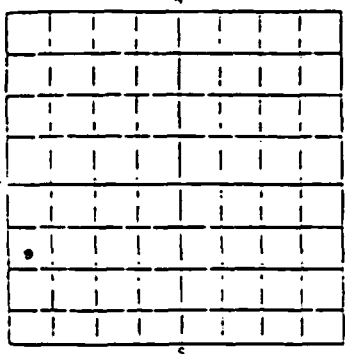
10/18/84
M 51

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE: Mesa Petroleum Co. P.O. Box 2009 Amarillo, Texas 79189	NAME AND ADDRESS OF CEMENTING COMPANY: Halliburton Services P.O. Box 2374 Williston, N.D. 58801
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LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES 	STATE: <u>Nt.</u> COUNTY: <u>Roosevelt</u>	PERMIT NUMBER: <u>MTR21PR-0005</u>
	SURFACE LOCATION DESCRIPTION: SW 1/4 OF NW 1/4 OF SW 1/4 SECTION 22 TOWNSHIP 22N RANGE 51E	
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT: Surface Location: <u>SW 1/4</u> from (N/S) <u>S</u> Line of quarter section and <u>SW 1/4</u> from (E/W) <u>W</u> Line of quarter section	
	TYPE OF PERMIT: <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells: <u>1</u>	Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole: <u>Cement was pumped and perfs squeezed in well bore. remaining hole filled to surface with cement by pumping.</u>

CASING AND TUBING RECORD AFTER PLUGGING					WELL ACTIVITY	METHOD OF EMPLACEMENT OF CEMENT PLUGS
SIZE	WELL (FT)	PLUG IN WELL (FT)	LEFT IN WELL (FT)	HOLE SIZE		
8 5/8"	225	000'	000'	10 1/2"	<input checked="" type="checkbox"/> Brine Disposal	<input type="checkbox"/> The Balance Method
8 1/2"	15 55	720'	720'	8"	<input type="checkbox"/> Enhanced Recovery	<input type="checkbox"/> The Jump Barrier Method
2 7/8"	6 55	006'	006'	3 1/2"	<input type="checkbox"/> Hydrocarbon Storage	<input type="checkbox"/> The Two-Plug Method

CEMENTING TO PLUG AND ABANDON DATA		PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date	07/15/84	Squeezed Filled hole						
Size of Hole or Pipe in which Plug Placed (Inches)		4.75"	4.75"					
Depth to Bottom of Tubing or Drill Pipe (ft)		306'	306'					
Sacks of Cement Used (each plug)		140	110					
Slurry Volume Pumped (cu ft)		132	145					
Calculated Top of Plug (ft)		760'	Surface					
Measured Top of Plug (ft) (tagged bit)		774'	Surface					
Slurry Weight (Gal)		10.5	10.4					
Type Cement		Class "H"	Class "H"					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS			
From	To	From	To
796'	834'		

Signature of Cementer or Authorized Representative: Randy Nordsven <i>Randy Nordsven</i>	Signature of EPA Representative: <i>Randy Nordsven</i>
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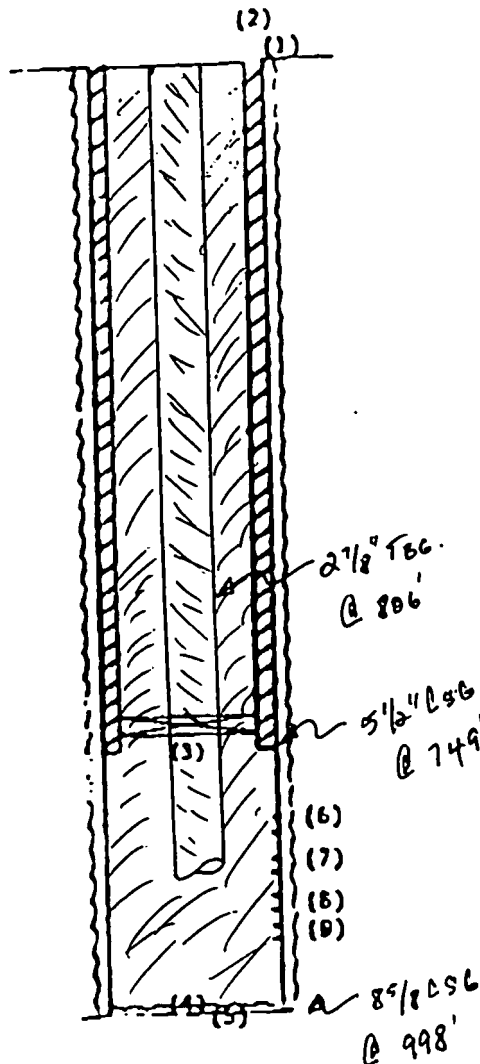
CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (Rel. 40 CFR 122.22).

NAME AND OFFICIAL TITLE (Please type or print): Randy Nordsven Regulatory Agent.	SIGNATURE: <i>Randy Nordsven</i> Randy Nordsven	DATE SIGNED: January 11, 1995
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MESA IRRIGATION CO.
 BIERE #1 SWD
 1750' FSL & 140' FWL MESA
 Sec. 22, T28N, R51E
 Roosevelt County, Montana

(BIERE #1 SWD)



- 2087
 Grd. 2075' -- KB 2067'
- (1) 8 5/8" - 24' STLC, Rgr 2 Act @ 998' KB cml. w/500 sxs., cjt. to surface
 - (2) 5 1/2" 15.50 Set @ 746.90', cjt. w/25 sxs., cjt. to surface
 - (3) Cast Iron Bridge Plug set at 740'. Cement 5 1/2" casing from CIBP to Surface.
 - (4) PBTD @ 949' KB
 - (5) TD @ 998' KB
 - (6) Perf. 796-800 4 Hps
 - (7) Perf. 804-808 4 Hps
 - (8) Perf. 812-820 4 Hps
 - (9) Perf. 825-834 4 Hps

WELL P&A ON 9-16-84

By FILLING CSB. (5 1/2") & TBG (2 7/8")
 W/ 250 SXS. CLASS 'H' CEMENT.

CSB. CUTOFF 4' BELOW GL.

Received
 Office of Enforcement

FEB 25 2011

Compliance & Env. Justice